

Annexes

The following seven annexes provide additional information related to the material presented in the main body of this report as directed in the *UNFCCC Guidelines on Reporting and Review* (GE.03-60887). Annex 1 contains an analysis of the key categories of emissions discussed in this report and a review of the methodology used to identify those key categories. Annex 2 describes the methodologies used to estimate CO₂ emissions from fossil fuel combustion, the carbon content of fossil fuels, and the amount of carbon stored in products from non-energy uses of fossil fuels. Annex 3 discusses the methodologies used for a number of individual source categories in greater detail than was presented in the main body of the report and includes explicit activity data and emission factor tables. Annex 4 presents the IPCC reference approach for estimating CO₂ emissions from fossil fuel combustion. Annex 5 addresses the criteria for the inclusion of an emission source category and discusses some of the sources that are excluded from U.S. estimates. Annex 6 provides a range of additional information that is relevant to the contents of this report. Finally, Annex 7 provides data on the uncertainty of the emission estimates included in this report.

Annexes	1
ANNEX 1 Key Category Analysis	3
ANNEX 2 Methodology and Data for Estimating CO ₂ Emissions from Fossil Fuel Combustion.....	17
2.1. Methodology for Estimating Emissions of CO ₂ from Fossil Fuel Combustion.....	17
2.2. Methodology for Estimating the Carbon Content of Fossil Fuels	39
2.3. Methodology for Estimating Carbon Emitted from Non-Energy Uses of Fossil Fuels.....	69
ANNEX 3 Methodological Descriptions for Additional Source or Sink Categories.....	95
3.1. Methodology for Estimating Emissions of CH ₄ , N ₂ O, and Indirect Greenhouse Gases from Stationary Combustion	95
3.2. Methodology for Estimating Emissions of CH ₄ , N ₂ O, and Indirect Greenhouse Gases from Mobile Combustion and Methodology for and Supplemental Information on Transportation-Related GHG Emissions	102
3.3. Methodology for Estimating CH ₄ Emissions from Coal Mining	135
3.4. Methodology for Estimating CH ₄ Emissions from Natural Gas Systems.....	142
3.5. Methodology for Estimating CH ₄ Emissions from Petroleum Systems	146
3.6. Methodology for Estimating CO ₂ and N ₂ O Emissions from Municipal Solid Waste Combustion	149
3.7. Methodology for Estimating Emissions from International Bunker Fuels used by the U.S. Military	153
3.8. Methodology for Estimating HFC and PFC Emissions from Substitution of Ozone Depleting Substances.....	158
3.9. Methodology for Estimating CH ₄ Emissions from Enteric Fermentation	169
3.10. Methodology for Estimating CH ₄ and N ₂ O Emissions from Manure Management.....	177
3.11. Methodology for Estimating N ₂ O Emissions from Agricultural Soil Management	199
3.12. Methodology for Estimating Net Carbon Stock Changes in Forest Lands Remaining Forest Lands.....	213
3.13. Methodology for Estimating Net Changes in Carbon Stocks in Mineral and Organic Soils	222
3.14. Methodology for Estimating CH ₄ Emissions from Landfills	242
ANNEX 4 IPCC Reference Approach for Estimating CO ₂ Emissions from Fossil Fuel Combustion.....	249
ANNEX 5 Assessment of the Sources and Sinks of Greenhouse Gas Emissions Excluded	259
ANNEX 6 Additional Information.....	267
6.1. Global Warming Potential Values	267
6.2. Ozone Depleting Substance Emissions.....	274
6.3. Sulfur Dioxide Emissions	276
6.4. Complete List of Source Categories	278
6.5. Constants, Units, and Conversions.....	279
6.6. Abbreviations	282
6.7. Chemical Formulas	286
ANNEX 7 Uncertainty	289
7.1. Overview	289
7.2. Methodology and Results.....	289
7.3. Planned Improvements	294
